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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,719	01/23/2004	Thomas Zdeblick	MSDI-200/PC261.21	7326
52196 7590 12/11/2008 KRIEG DEVAULT LLP ONE INDIANA SQUARE, SUITE 2800 INDIANAPOLIS, IN 46204-2709				
EXAMINER STEWART, ALVIN J				
ART UNIT 3774		PAPER NUMBER		
MAIL DATE 12/11/2008		DELIVERY MODE PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/763,719

**Applicant(s)**

ZDEBLICK ET AL.

**Examiner**

Alvin J. Stewart

**Art Unit**

3774

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02 September 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 15-23, 39-43, 45-47, 49-52, 54, 55, 65, 67 and 71 is/are pending in the application.
- 4a) Of the above claim(s) 39 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 15-23, 41-43, 51, 52, 65, 67, 71 and 73 is/are allowed.
- 6) ☒ Claim(s) 40, 45, 46 and 50 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Examiner's Patent Drawing Review (PTO-946)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 50 is rejected under 35 U.S.C. 102(b) as being anticipated by Doty US Patent 4,599,086

Doty discloses an elongated stem (12) having a height, a first end, a second end, a longitudinal axis and a flange (66, upper section) extending outward from the stem and a transverse stop element (66, lower end). An elongated driver shaft (32) extending generally along the axis and sized to extend outside of the intervertebral space. The shaft is capable of applying an external force to the implant to transmit an axial force (see Figs. 5 & 6).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 45 and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doty US Patent 4,599,086.

Doty discloses an elongated stem (12) having a height, a first end, a second end, a longitudinal axis and a flange (66, upper section) extending outward from the stem and a

transverse stop element (66, lower end). An elongated driver shaft (32) extending generally along the axis and sized to extend outside of the intervertebral space. The shaft is capable of applying an external force to the implant to transmit an axial force (see Figs. 5 & 6).

However, Doty does not disclose a flange portion and a stop element made of a single-piece monolithic structure with the stem portion.

At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to modify the multiple pieces of the Doty reference with a single monolithic piece because Applicant has not disclosed that by having a monolithic piece provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with two pieces of the Doty reference because it would perform equally as well.

Therefore, it would have been an obvious matter of design choice to modify the Doty reference to obtain the invention as specified in claims 46 and 45.

Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Doty US Patent 4,599,086 in view of Ray US Patent 6,042,582.

Doty discloses the invention substantially as claimed. However, Doty does not disclose a plurality of ridges.

Ray teaches an implant comprising a plurality of ridges for the purpose of increasing the surface area contact with the end plates and to facilitate retention between adjacent vertebrae (see col. 8, lines 54-63).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Doty reference with the Ray reference in order to increase the surface area of the implant and to facilitate retention between adjacent vertebrae.

***Allowable Subject Matter***

Claims 15-23, 41-43, 51, 52, 65, 67, 71 and 73 are allowed.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin J. Stewart whose telephone number is 571-272-4760. The examiner can normally be reached on Monday-Friday 7:00AM-5:30PM(1 Friday B-week off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Isabella can be reached on 571-272-4749. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Alvin J Stewart/  
Primary Examiner, Art Unit 3774

December 08, 2008.